BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 923,812.00

Name of Work: Providing Water Supply in Ward No 08

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 17-18, Chapter -16, Item No -24, O150A	No	24				**24.00**	105.54	2,533.00
2	Transportation of pumping machineries, Chapter 17, Item No 3.18 BWSSB SR (2018-19)	No	24				**24.00**	560.40	13,450.00
3	Rewinding of Submersible Pump Sets **Chapter 17**								
a	(BWSSB SR 17-18 Item No - 1.12) 10 HP	No.	4				**4.00**	4,714.83	18,859.00
b	(BWSSB SR 17-18 Item No - 1.7) 7.5 HP	No.	4				**4.00**	3,815.39	15,262.00
c	(BWSSB SR 17-18 Item No - 1.15) 12.5 HP	No.	5				**5.00**	5,946.78	29,734.00
d	(BWSSB SR 17-18 Item No - 1.17) 15.0 HP	No.	5				**5.00**	6,769.63	33,848.00
	B) Replacement of Motor Parts:								
4	Pump Bowls (BWSSB SR 17-18) Chapter 17 . Item No 2.1	No.	60				**60.00**	315.69	18,941.00
5	Intermediate Piece(I.P) With IP Leaded Bronxe bush (BWSSB SR 17-18 Chapter 17 . Item No 2.2	No .	10				**10.00**	729.45	7,295.00
6	Upper Flange (BWSSB SR 17-18) Chapter 17 . Item No 3.7	No.	10				**10.00**	337.17	3,372.00
7	Lower Housing (BWSSB SR 14.15) **Chapter 17 . Item No 3.9**	No.	10				**10.00**	550.13	5,501.00
8	Guide vane (BWSSB SR 17-18) Chapter 17 . Item No 2.5	No.	75				**75.00**	198.01	14,851.00
9	Impeller Shell (moulded with aluminium and Bronze) (BWSSB SR 17-18) Chapter 17 . Item No 2.6	No .	20				**20.00**	268.99	5,380.00
10	Discharge outlet (D.0) Bearing D.0 Steel Bush P. (BWSSB SR 17-18) Chapter 17 . Item No 2.7	No	20				**20.00**	533.31	10,666.00
11	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) (BWSSB SR 17-18) Chapter 17 . Item No 2.1	No.	20				**20.00**	673.41	13,468.00
12	Pump Couping (Stainless Steel) (BWSSB SR 17-18) Chapter 17 . Item No 2.12	No	20				**20.00**	348.38	6,968.00
13	Stud and Nuts (BWSSB SR 17-18) Chapter 17 . Item No 3.14	Each	45				**45.00**	89.66	4,035.00
14	Motor Base With Pin (BWSSB SR 17-18) Chapter 17 . Item No 3.17	Each	20				**20.00**	415.03	8,301.00
15	Starter with up to 4 to 5 HP (with one year Guarantee) **Chapter 17 . Item No 3.1**	No.	10				**10.00**	6,056.90	60,569.00
16	Rotor with 4 to 5 H P (with one year Guarantee) **Chapter 17 . Item No 3.6**	No .	10				**10.00**	4,466.94	44,669.00
17	Carbon Housing **Chapter 17 . Item No 3.11**	No	20				**20.00**	415.63	8,313.00
18	Thrust bearing block assembly complete with Segment bearing pad. **Chapter 17 . Item No 3.12**	No	20				**20.00**	561.33	11,227.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Oil Seal **Chapter 17 . Item No 2.3**	No.	20				**20.00**	123.29	2,[illegible].00
20	Oil Seal Steel Bush Chapter 17 . Item No 2.4 BWSSB SR (2017-18)	No.	20				**20.00**	135.43	2,709.00
21	D.O Bearing Chapter No 17, I No. 2.7 BWSSB SR(2017-18)	No.	30				**30.00**	533.31	15,999.00
22	Steel Bush Chapter No 17, Item No. 2.8 BWSSB SR (2017-18)	No	80				**80.00**	179.33	14,346.00
23	Allen Screw Chapter No 17, Item No. 2.9 BWSSB SR (2017-18)	No.	35				**35.00**	78.40	2,744.00
24	Pump Key (Stainless Steel) Chapter No 17, Item No.2.11 BWSSB SR (2017-18)	No	15				**15.00**	123.20	1,848.00
25	Non - return valve (NRV) assembly complete with rubber '0' Ring , Chapter No 17 Item No. 2.13 BWSSB SR (2017-18)	No.	15				**15.00**	583.76	8,756.00
26	Cable Guard Chapter No-17, Item No 2.14 BWSSB SR (2017-18)	No.	20				**20.00**	169.05	3,381.00
27	Strainer Chapter No 17 / Item No 2.15 BWSSB SR (2017-18)	No	20				**20.00**	196.01	3,920.00
28	Brass Filter Chapter No 17 / Item No 2.16 BWSSB SR (2017-18)	No.	20				**20.00**	123.29	2,466.00
29	Labour Chargesw (Over Hauling Only) Chapter No 17 / Item No 2.17 BWSSB SR (2017-18)	No .	20				**20.00**	560.40	11,208.00
30	Re-erection charges of pumping machineries including overhauling and pointing Chapter No 17 / Item No 3.19 BWSSB SR (2017-18)	Each	20				**20.00**	1,122.67	22,453.00
31	Lock Ring Chapter No 17 / Item No 3.10 BWSSB SR (2017-18)	Each	15				**15.00**	89.66	1,345.00
32	a) Carbon Housing Chapter No 17 / Item No 3.11 APBWSSB SR (2017-18)	Each	15				**15.00**	415.63	6,234.00
33	Top Carbon/Ferrodo padding Chapter No 17 / Item No 3.12 APBWSSB SR (2017-18)	Each	15				**15.00**	1,795.15	26,927.00
34	Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush .Chapter No 17 / I No. 10.3.15 APBWSSB SR (2017-18)	Each	20				**20.00**	415.63	8,313.00
35	Circillps Chapter No 3.16 / I No.3.16 BWSSB SR (2017-18)	Each	20				**20.00**	51.37	1,027.00
	Genaral Itmes								
36	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.	Mtr							
	3C X 6.0Sq.mm		1	300			**300.00**		
	Qty Upto 125%						**250.00**	191.47	47,868.00
	Qty Above 125%						**50.00**	191.47	9,574.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
37	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.	Each							
	50-63 Amps DP		20	1			**20.00**	1,265.57	25,311.00
38	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. Item No 5.7.3 SR 2018-19	No.							
	63 Amps		10	3			30.00		
							30.00	212.02	6,361.00
39	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark 50mm Gate wheel Valve. (PWD SR 2015-16, P.NO.XXIV, Sl.no, 673)	No's							
			5	3			**15.00**	1,384.38	20,766.00
40	Earthwork excavation for foundation of buildings, water supply, sanitary lines and 41'ectrical conduits either in pits or in trenches 1.5 M AND above in Width, in Ordinary Soil not exceeding 1.5m in Depth including Dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 18-19)	Cum							
			1	335	0.45	0.75	113.06		
							113.06		
	Qty upto 125%						**63.28**	331.54	20,978.00
	Qty above 125%						**49.79**	331.54	16,507.00
41	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with Mtr all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO 94, I.NO 13.73.3, PWD SR 18-19)	Mtr							
	75 mm dia 6 KSC PVC pipe		1	335			335.00		
							335.00		
	Qty upto 125%						**187.50**	471.26	88,361.00
	Qty above 125%						**147.50**	471.26	69,511.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
42	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO 6, I.NO - 2.11, PWD SR 18-19)	Cum							
				Qty. Vide Item No.			**113.06**		
	Qty upto 125%						**63.28**	134.17	8,490.00
	Qty above 125%						**49.79**	134.17	6,680.00
43	KSRB 13.6.3-6 Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 97 /1.13.37 PWD SR - 2018-19	Each							
			6				**6.00**	1,928.23	11,569.00
	EIRL								
E1	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975GROUP-A **P No. 40 / I No. 6.4.3 4 core 16 Sqmm KPWD Electrical SR 2019-20**	Mtr							
			1	50.00			**50.00**	156.91	**7846.00**
	Charges Basic Rate	150.00							
	GST @ 12%	18.00							
	Total	**168.00**							
	Tender Premium @ -6.60 %	-11.09							
	Total	**156.91**							
E2	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. **P No. 41 / I No. 6.5.1 (6Sqmm to 16 Sqmm) KPWD Electrical SR 2019-20**	Mtr							
			1	50.00			**50.00**	12.43	**621.00**
	Charges Basic Rate	11.88							
	GST @ 12%	1.43							
	Total	**13.31**							
	Tender Premium @ -6.60 %	-0.878							
	Total	**12.43**							
E3	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 41 / I. No. 6.6.1 KPWD Electrical SR 2019-20**	Mtr							
	For Cutting Road Surface		1	40.00			**40.00**	79.50	**3180.00**
	Charges Basic Rate	76.00							
	GST @ 12%	9.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**85.12**							
	Tender Premium @ -6.60 %	-5.618							
	Total	**79.50**							
E4	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. **P. No. 41 / I No.**	Mtr							
	40mm dia GI pipe		1	4.00			**4.00**	350.44	**1402.00**
	Charges Basic Rate	335.00							
	GST @ 12%	40.20							
	Total	**375.20**							
	Tender Premium @ -6.60 %	-24.76							
	Total	**350.44**							
E5	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. **P. No. 42 / I.No. 7.10.2 KPWD Electrical SR 2019-20**	No.							
	16Sqmm		4				**4.00**	282.44	**1130.00**
	Charges Basic Rate	270.00							
	GST @ 12%	32.40							
	Total	**302.40**							
	Tender Premium @ -6.60 %	-19.96							
	Total	**282.44**							
E6	GI Pipe 50 mm'B' class **Page No. XLVII Sl No. 1, PWD SR 2018-19**	m							
			1	212.00			**212.00**	434.12	**92034.00**
	Charges Basic Rate	415.00							
	GST @ 12%	49.80							
	Total	**464.80**							
	Tender Premium @ -6.60 %	-30.68							
	Total	**434.12**							
E7	Heavy Duty Collar 50 mm dia **Page No. XLVII, SL No. 2, PWD SR 2018-19**	Nos							
			1	65.00			65	188.29	12239.00
	Charges Basic Rate	180.00							
	GST @ 12%	21.60							
	Total	**201.60**							
	Tender Premium @ -6.60 %	-13.31							
	Total	**188.29**							
							Total Construction Cost		923,812.00

Modified Technical Sanction Accorded For Rs 923812/-
Head of A/C P3293
CER NO : 38 Dt: 03.11.2020

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2016-17 BWSSB S.R.of Rural Engineering Department
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Consultant

Assistant Engineer

Assistant Executive Engineer

Executive Engineer
Byatarayanapura Division
BWSSB, Bangalore-92